

Liquid Chromatography (HPLC) on samples of dried inflorescence (dried herbal material). The cultivar is moderately high in cannabinoids (12-15%). Essentially all of the cannabinoids are present as tetrahydrocannabinolic acid (THCA). THC is technically a product of THCA decarboxylation and is not directly synthesized by the plant. However, it will be appreciated that THCA spontaneously breaks down into THC and that elevated temperatures during the drying of herbal material frequently results in total or near total conversion of THCA into THC. Therefore, it is common to indicate the calculated THC content by calculating the amount of THC that will be produced by decarboxylation of a given weight of THCA by multiplying the THCA weight by 0.877 (which number represents the ratio of the molecular weight of THC to that of THCA) and adding the resulting number to the figure that represents any THC that was detected. Calculated THC represents the total amount of THC that is available in a given sample. Tables II and III present the terpene/terpenoid profile of 'LW-BB1' expressed as weight/weight percent ('%') of the dried herbal product. Terpenes were analyzed using gas chromatography-mass spectrometry (GC-MS). Samples from three separate harvests of 'LW-BB1' were analyzed; sample 2 and 3 are not as recent as sample 1 which might account for some loss of terpenoids. The dried herbal product is 0.64-1.1% weight/weight non-cannabinoid terpenes/terpenoids.

TABLE I

(Cannabinoids)					
Sample batch	CBGA	CBG	THCA	THC	THC calculated
1	N/A	N/A	13.9	none detected	12.2
2	0.35	none detected	14.8	0.19	13.2
3	0.229	none detected	11.8	0.19	10.5
Sample batch	CBN	CBDA	CBD	CBC	Total Cannabinoids
1	none detected	none detected	none detected	N/A	13.90
2	none detected	none detected	none detected	none detected	15.34
3	none detected	none detected	none detected	none detected	12.27

("N/A" + "not analyzed")

CBGA (cannabigerolic acid); CBG (cannabigerol); CBN (cannabinol); CBDA (cannabidiolic acid); CBD (cannabidiol); CBC (cannabichromene)

TABLE II

(Terpenes/terpenoids)						
Sample batch	terpinolene	linalool	$\beta$ -myrcene	citronellol	$\alpha$ -pinene	Lim-onene
1	0.0015	0.0202	0.6184	0.0017	0.1617	0.0369
2	0.0016	0.0177	0.3717	0.0007	0.1430	0.0230
3	0.0016	0.0143	0.3053	0.0006	0.0826	0.0181

TABLE II-continued

(Terpenes/terpenoids)					
Sample batch	$\beta$ -calyophyllene	$\alpha$ -humulene	$\beta$ -pinene	borneol	camphene
1	0.147700	non detected	0.0851	none detected	0.0041
2	0.1265	0.0304	0.0753	none detected	0.0033
3	0.1166	0.0294	0.0468	none detected	0.0022

TABLE III

(Terpenes/terpenoids)					
Sample batch	(-)-sabinene	ocimene	$\alpha$ -terpinene	$\delta$ -3-carene	L-fenchone
1	none detected	0.0065	0.0005	0.0006	0.0005
2	none detected	0.0043	0.0005	0.0006	0.0005
3	none detected	0.0035	0.0005	0.0007	0.0004
Sample batch	p-cymene	$\alpha$ -phellandrene	$\alpha$ -terpineol	fenchol	Total Terpenes/terpenoids
1	none detected	0.0018	0.0066	0.0074	1.10
2	none detected	0.0015	0.0059	0.0073	0.81
3	none detected	0.0016	0.0050	0.0060	0.64

'LW-BB1' is characterized by a distinct richness of terpenoids. It typically contains detectable amounts of terpinolene, citronellol, camphene, ocimene, alpha terpinene,  $\delta$ -3 carene and L-fenchone, compounds that could not be detected in the elite cultivar from which the tissue culture was established on Jun. 23, 2016. Compared to the parents 'LW-BB1' has a higher terpene content (a sample of 'DJ Short's Blueberry' showed a total terpene/terpenoid content of 0.46% while a sample of 'Black Berry Kush' showed a total terpene/terpenoid content of 0.64%) and more  $\beta$ -myrcene and  $\beta$ -pinene (a sample of 'DJ Short's Blueberry' showed a  $\beta$ -myrcene content of 0.56% and a  $\beta$ -pinene content of 0.038% while a sample of 'Black Berry Kush' showed a  $\beta$ -myrcene content of 0.27% and a  $\beta$ -pinene content of 0.032%). 'LW-BB1' has detectable terpinolene, citronellol,  $\alpha$ -terpinene, and  $\beta$ -3 carene whereas none of these was detected in the parents. 'LW-BB1' has somewhat lower cannabinoid levels than the parents (13.98%—average of three samples). A sample of 'DJ Short's Blueberry' shows a total cannabinoid content of 25.22% (25.14% THC and 0.08% CBD) while a sample of 'Black Berry Kush' showed a total cannabinoid content of 21.77% (21.71% THC and 0.06% CBD). Both parents have detectable levels of CBD while no CBD was detected in 'LW-BB1.' Because 'LW-BB1' has a higher level of terpene/terpenoids and a lower level of cannabinoids than either of the parents, it is likely that the effect of terpene/terpenoids is more predominant than in either of the parents.

What is claimed is:

1. A new and distinct *Cannabis* plant as shown and described.